, or

4   where A is C, P, Sn, Si, or B, X is $-R_1C=CR_1-$, $-C\equiv C-$,

, or
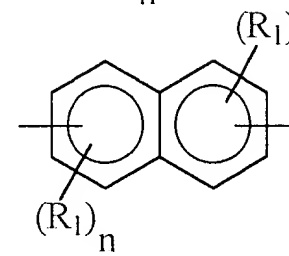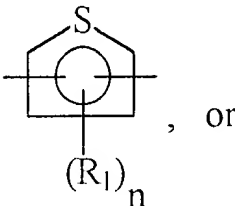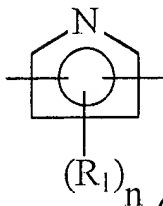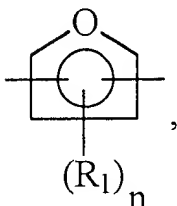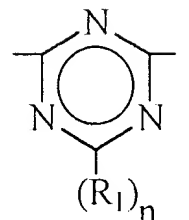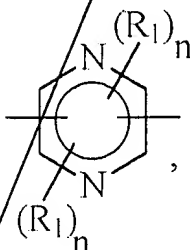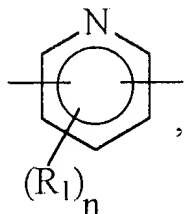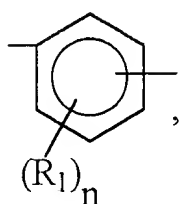
5   each Y is independently selected from O and S; each R is independently selected from

6   hydrogen, alkyl from C_1 to C_{20}, aryl from C_6 to C_{20}, alkaryl from C_7 to C_{20}, and aralkyl from

7 C_7 to C_{20}; each R_1 is independently selected from R, OR, RCO, ROCO, $ROCO_2$, $P(R)_2$,

8    $P(OR)_2$, PR(OR), $N(R)_2$, $(R)_2NCO$, $(R)_2NCO_2$, SR, and halogen; each R_2 is independently

9   selected from R, RCO, ROCO, $P(OR)_2$, $Sn(R)_p(OR)_{3-p}$, $Sn(R)_p(OCOR)_{3-p}$, $Si(R)_p(OR)_{3-p}$,

10   and $B(R)_p(OR)_{2-p}$, and two R_1 groups, two R_2 groups, or an R_1 group and an R_2 group can

11   be bridged together to form a ring, except that when two Y's are O and X is $-R_1C=CR_1-$ at

12   least one R_2 is not hydrogen; each R_3 is independently selected from R, RCO, ROCO,